



JACKSON ENERGY
COOPERATIVE

115 Jackson Energy Lane
PO Box 307, McKee, Kentucky 40447
Telephone (606) 364-1000 • Fax (606) 364-1007

March 31, 2005

Kentucky Public Service Commission
211 Sower Boulevard
Frankfort, KY 40602-0615

Gentlemen:

The attached information is presented to the Kentucky Public Service Commission by Jackson Energy Cooperative Corporation in response to a data request detailed in Appendix B of Administrative Case NO. 2005-00090 dated March 10, 2005.

Sincerely,

JACKSON ENERGY COOPERATIVE

Donald R. Schaefer
President & CEO

RECEIVED

MAR 31 2005

PUBLIC SERVICE
COMMISSION

FILED
MAY 31 2005
PUBLIC SERVICE
COMMISSION

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

AN ASSESSMENT OF)
KENTUCKY'S ELECTRIC) ADMINISTRATIVE CASE NO. 2005-00090
GENERATION, TRANSMISSION)
AND DISTRIBUTION NEEDS)

JACKSON ENERGY COOPERATIVE CORPORATION, INC.

PSC ADMINISTRATIVE CASE 2005-00090

PUBLIC SERVICE COMMISSION'S REQUEST DATED 03/10/05

The following information is being submitted by Jackson Energy Cooperative Corporation, Inc., in response to the information requests contained in Appendix B to the Order of the Kentucky Public Service Commission in this case dated March 10, 2005.

WITNESS RESPONSIBILITY

Mr. Ron Fuller, Vice-President of Engineering & Operations of Jackson Energy, is the witness assigned to all responses other than Items 5 and 17. Mr. James Lamb, Manager of Marketing Research at East Kentucky Power Cooperative, is assigned to those two items.

NON-APPLICABLE ITEMS

Request numbers 3, 4, 6 through 16, 21 through 25 are not applicable to Jackson Energy.

JACKSON ENERGY COOPERATIVE CORPORATION, INC.

PSC ADMINISTRATIVE CASE NO. 2005-00090

RESPONSES TO INITIAL DATA REQUESTS

Request 1. Provide a summary description of your utility's resource planning process. This should include a discussion of generation, transmission, demand-side, and distribution resource planning.

Response 1. Jackson Energy prepares a Long Range Plan for the development of our system. The plan is revised about every 10 years or when it is no longer applicable due to growth changes. This plan is prepared by an outside consultant.

The Power Requirements Study is prepared by East Kentucky Power Cooperative (EKPC) and Jackson Energy personnel. It is reviewed and revised periodically. We utilize this study to determine load levels for our work plan preparation.

Substation loading data is provided by EKPC monthly.

Jackson Energy reviews current load growth patterns in relation to the Long Range Plan, the Power Requirements Study, substation loading data, planned industrial expansion, and residential development as resources for planning system improvements.

Request 2. Are new technologies for improving reliability, efficiency and safety investigated and considered for implementation in your power generation, transmission and distribution system?

Response 2. Yes. Jackson Energy is currently implementing a new SCADA system, a new outage management system, a new mapping system, an interactive voice

response system, and a new staking package as tools to improve corporate efficiency and improve system reliability.

Request 5. Provide actual and weather-normalized annual coincident peak demands for calendar years 2000 through 2004 disaggregated into (a) native load demand, firm and non-firm; and (b) off-system demand, firm and non-firm.

Response 5. Please see the information contained in Attachment A.

Request 17. Provide a summary description of your utility's existing demand-side management ("DSM") programs, which includes:

- a. Annual DSM budget.
- b. Demand and energy impacts.
- c. The currently scheduled termination dates for the programs.

Response 17. The response below is from EKPC's response to this question and is applicable to Jackson Energy.

Nonresidential DSM

EKPC and its member systems actively promote interruptible rate pricing as a DSM tool. There currently exists 124 MW of interruptible demand on the EK system, the bulk of which is a single customer served by Owen Electric (Gallatin Steel).

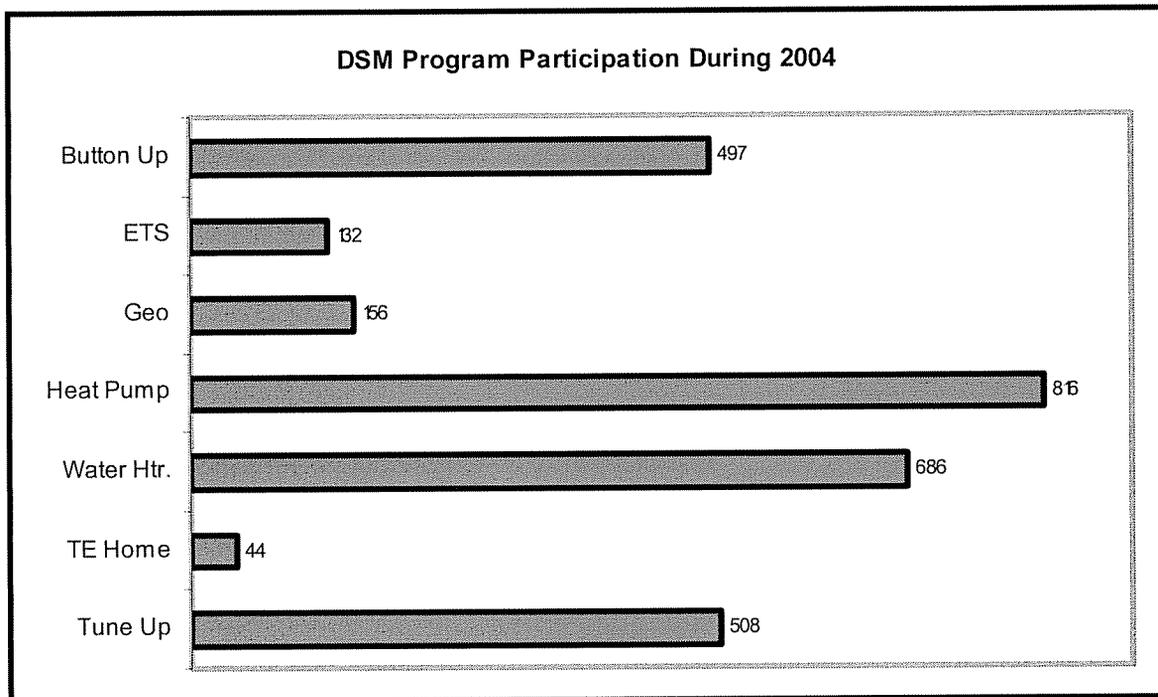
Residential DSM

East Kentucky Power Cooperative (EKPC) and its 16 members work together to design residential DSM programs. Program implementation is done by the distribution cooperative, with support by EKPC. Residential DSM programs almost always involve HVAC or water heating efficiency measures.

DSM programs currently in place are as follows:

1. Air-Source Heat Pump Incentive
2. Button Up Weatherization
3. Electric Thermal Storage (ETS)
4. Electric Water Heater Incentive
5. Geothermal Heating and Cooling
6. Touchstone Energy Home¹
7. Tune Up – HVAC Maintenance

In 2004, the programs had the following number of participants.



Button Up Weatherization Program

The program requires the installation of insulation materials or the use of other weatherization techniques to reduce heat loss in the home. Any retail member living in a stick-built or manufactured home that is at least two years old and which uses electric as the primary source of heat is eligible.

¹ This program includes the Touchstone Energy Manufactured Home in addition to homes constructed on site.

Air-Source Heat Pump Incentive

This program promotes efficient air-source heat pumps. The primary targets for this program are retail members building new homes in areas where natural gas heat is an option. An important secondary target is the HVAC retrofit market, offering incentives to retail members to replace electric furnaces and gas or propane heat with high-efficiency electric heat pumps.

Electric Thermal Storage

This program involves heating bricks during off-peak hours, thus storing the heat. During on-peak times, the heat is dispersed into the home. A time-of-day rate for ETS energy encourages retail members to use heating energy off-peak rather than on-peak. While this program is not a conservation program, it nonetheless helps to clip winter peak demand.

Electric Water Heater Incentive

The electric water heater incentive is designed to encourage residential customers engaged in new construction to choose a high-efficiency electric water heater over other available options. It is also designed to encourage conversion from a fossil-fuel water heater to a high-efficiency electric water heater.

Geothermal Heating and Cooling

Traditional air-source heat pumps remove heat from the air. Geothermal heating is a heat pump that removes heat from the ground. It is a very efficient heating and cooling appliance. EKPC and its member systems pioneered the development and implementation of geothermal heating and cooling during the eighties and nineties.

Touchstone Energy Home

This program provides incentives and support relating to new home construction. A home built to Touchstone Energy specifications will be at least as efficient as an Energy Star home.

Tune Up HVAC Maintenance

This program includes cleaning indoor and outdoor heat-exchanger coils, changing filters, measuring the temperature differential across the indoor coil to determine proper compressor operation, checking the thermostat to verify operation and proper staging, measuring air flows to ensure proper conditioned air distribution, and sealing ductwork either through traditional mastic sealers or the Aroseal dust sealing system.

Demand / Energy Impacts And Annual Budget

The table below reports program impacts. Note that this data is per installation.

	Energy Impact (kWh)	Impact On Winter Peak (kW)	Impact On Summer Peak (kW)
Button Up	(2,700)	(2.7)	(1.0)
Tune Up	(2,200)	(2.2)	(1.0)
Geothermal	(6,000)	(3.5)	(1.5)
ETS	9300*	(2.1)	0.0
Efficient Heat Pump In New Construction	(925)	2.5**	(1.0)
Touchstone Energy Home	(5,100)	(2.4)	(1.4)
Efficient Water Heater	700**	0.2**	0.1**

* Off-peak

** Impacts are positive due to customers who normally would have chosen natural gas

Annual budgets are a function of administrative cost and incentive payments. The table below reports EKPC administrative costs, and typical administrative costs and incentive payments by EKPC member distribution cooperatives.

	EKPC Administrative Per Unit Cost	Distribution Cooperative Administrative Per Unit Cost	Incentive Payment
Button Up	\$32	\$163	Up to \$400
Tune Up	\$60	\$216	(\$50)*
Geothermal	\$17	\$254	\$300
ETS	\$57	\$304	\$50 per kW Installed
Efficient Heat Pump In New Construction	\$13	\$182	\$300
Touchstone Energy Home	\$13	\$162	Varies Widely By Distribution Cooperative
Efficient Water Heater	\$8	\$61	\$100

*Homeowner pays \$50 for the service

For a more in depth discussion of EKPC and member distribution cooperative DSM programs, please see Administrative Case No. 2003-00051, Appendix II.

Request 18. Provide your utility’s definition of “transmission” and “distribution.”

Response 18. Voltages of 69 KV and above are considered transmission voltage. The distribution system voltage of Jackson Energy's system is 12.5 KV.

Request 19. Identify all utilities with which your utility is interconnected and the transmission capacity at all points of interconnection.

Response 19. Jackson Energy receives service at the feeder level from 27 East Kentucky Power Cooperative substations. The transmission capacity is provided by EKPC.

Request 20. Provide the peak hourly MW transfers into and out of each interconnection for each month of the last 5 years. Provide the date and time of each peak.

Response 20. Not Applicable

Request 26. Provide the yearly System Average Interruption Duration Index ("SAIDI") and the System Average Interruption Frequency Index ("SAIFI"), excluding major outages, by feeder for each distribution substation on your system for the last 5 years.

Response 26. This information is included as Attachment B. Due to the information being archived and a modification to our computer system, we are only capable of retrieving this information for the winter of 2002 through the summer of 2004. Jackson Energy does not separate information by the type or severity of the outage.

Therefore, all outages are included in the data. We are currently in the process of installing a new outage management system which will improve our operational and data collection capabilities.

Request 27. Provide the yearly SAIDI and SAIFI, including major outages, by feeder for each distribution substation on your system for the last 5 years. Explain how you define major outages.

Response 27. The information requested is included in Attachment B. Due to the information being archived and a modification to our computer system, we are only capable of retrieving the information for the winter of 2002 through the summer of 2004. Jackson Energy does not separate information by the type or severity of the outage. The information is inclusive of all outages. We are currently in the process of installing a new outage management system which will improve our operational and data collection capabilities.

Jackson Energy defines a major outage as ten percent of our consumers without electric service for 24 hours.

Request 28. What is an acceptable value for SAIDI and SAIFI? Explain how it was derived.

Response 28. Jackson Energy has not established acceptable values for SAIDI and SAIFI.

Request 29. Provide the yearly Customer Average Interruption Duration Index (“CAIDI”) and the Customer Average Interruption Frequency Index (“CAIFI”), including and excluding major outages, on your system for the last five years. What is an acceptable value for CAIDI and CAIFI? Explain how it was derived.

Response 29. The information requested is included in Attachment B. Jackson Energy’s previous outage management program only calculated statistics for CAIDI. We have no statistics for CAIFI. Also, due to the information being archived and a modification to our computer system, we are only capable of retrieving the information for winter of 2002 through the summer of 2004. The information included in Attachment B is inclusive of all outages. Jackson Energy does not separate information by the type or severity of the outage.

Jackson Energy has not established acceptable values for CAIDI and CAIFI.

Request 30. Identify and describe all reportable distribution outages from January 1, 2003 until the present date. Categorize the causes and provide the frequency of occurrence for each cause category.

Response 30. The information is included in Attachment C of this response. The information is for 2004 only. We do not have records of reportable events for 2003. All reportable events in 2004 were related to storms.

Request 31. Does your utility have a distribution and/or transmission reliability improvement program?

- a. How does your utility measure reliability?
- b. How is the program monitored?

- c. What are the results of the system?
- d. How are proposed improvements for reliability approved and implemented?

Response 31. Yes, Jackson Energy has an ongoing reliability improvement program. The distribution system is monitored at system peaks to determine line sections that are approaching the maximum load carrying capacity. When a line section is identified as approaching maximum capacity, the line section is reviewed for system coordination modifications and possible reconductoring. When reconductoring is determined to be the best option to insure system reliability, the project is placed in a construction work plan. The electric system is also monitored for areas requiring tree trimming. Tree related right-of-way maintenance is an ongoing process.

- Request 32.** Provide a summary description of your utility's:
- a. Right-of-way management program. Provide the budget for the last 5 years.
 - b. Vegetation management program. Provide the budget for the last 5 years.
 - c. Transmission and distribution inspection program. Provide the budget for the last 5 years.

Response 32. Right-of-way management and vegetation management are considered as the same process. The distribution system right-of-way is monitored regularly for areas of excessive vegetation growth. When an area is determined to need trimming, a crew is assigned to the line section to clear the right-of-way as appropriate.

Right-of-way budget for 2005	\$2,080,672.00
Right-of-way budget for 2004	\$2,359,195.00
Right-of-way budget for 2003	\$2,205,257.00
Right-of-way budget for 2002	\$1,877,851.00
Right-of-way budget for 2001	\$1,434,601.00

The distribution system is visually inspected on a two year cycle.

Budget for 2005	\$62,093.00
Budget for 2004	\$68,734.00
Budget for 2003	\$86,595.00
Budget for 2002	\$71,455.00
Budget for 2001	\$370,693.00 *

* During the 2001 budget year, a program was initiated to inspect 10,000 poles and provide ground line treatment as necessary. Additional ground rods were also installed as part of the inspection program.

Request 33. Explain the criteria your utility uses to determine if pole or conductor replacement is necessary. Provide costs/budgets for transmission and distribution facilities replacement for the years 2000 through 2025.

Response 33. Jackson Energy reviews its system integrity through line inspections, reports from construction personnel, actual system loading and load forecasting. Based upon these factors, determination is made concerning which line segments require replacement or upgrading.

Budgeted pole replacements for 1999 – 2000 included 400 poles at a cost of \$280,000.00

Budgeted pole replacements for 2001 – 2002 included 486 poles at a cost of \$486,000.00

Budgeted pole replacements for 2003 – 2005 included 406 poles at a cost of \$928,200.00

Jackson Energy anticipates replacing 400 to 500 poles per each two-year work plan through 2025.

The following is a summary of budgeted system improvements for the years 2001 through 2005. The total is inclusive of pole replacements. The current total facilities replacement amount can be projected through 2025 using an estimated value for inflation.

2004 – 2005 Construction Work Plan Facilities Replacement \$7,921,000.00

2003 – 2004 Construction Work Plan Facilities Replacement \$7,868,800.00

2001 – 2002 Construction Work Plan Facilities Replacement \$7,435,600.00

Jackson Energy Cooperative response to Kentucky Public Service
Commission Order 2005-00090

Attachment A

<p style="text-align: center;">Jackson Energy Actual and Weather-Normalized Annual Coincident Peak Demands</p>					
Annual Peak	Actual Peak Demand (MW)	Weather Response Function (MW / Degree)	Actual Peak Day Temperature (Degrees F)	Normal Peak Day Temperature (Degrees F)	Weather Normalized Peak Demand (MW)
December-00	227.9	-2.56	7	1	243.2
January-01	237.0	-2.58	9	1	257.6
January-02	217.0	-2.59	15	1	253.3
January-03	241.6	-2.56	3	1	246.7
December-04	252.3	-2.58	3	1	257.5

*Based on Jackson KY Weather Station Data
and Jackson Energy Hourly Load Data*

**Jackson Energy Cooperative response to Kentucky Public Service
Commission Order 2005-00090**

Attachment B

DATE 03/22/2005
SUMMER 2003

113 FDRS

SERVICE QUALITY REPORT
FORCED INTERRUPTIONS

JACKSON COUNTY RECC

PAGE 1

			SAIFI	SAIDI	CAIDI	NBR - OUT	CONSUMER MINUTES	TOTAL SERVED
1	SUB 1	FDR 1	1.51	137.10	90.58	893	80891	590
2	SUB 1	FDR 2	0.23	22.33	96.17	62	5963	267
3	SUB 1	FDR 3	0.13	13.07	98.62	74	7298	558
4	SUB 1	FDR 4	0.14	5.47	37.80	10	378	69
5	SUB 2	FDR 1	2.03	286.80	141.16	2119	299135	1043
6	SUB 2	FDR 2	1.13	92.45	81.26	661	55717	581
7	SUB 2	FDR 3	0.26	28.99	108.48	247	26795	924
8	SUB 3	FDR 1	2.81	875.35	311.41	2215	689778	788
9	SUB 3	FDR 2	0.10	30.68	291.50	2	583	19
10	SUB 3	FDR 3	3.10	272.40	87.79	3742	328522	1206
11	SUB 3	FDR 4	1.73	184.02	105.77	929	98269	534
12	SUB 4	FDR 0			49.00	1	49	
13	SUB 4	FDR 1	1.89	409.48	216.21	714	154374	577
14	SUB 4	FDR 2	0.22	15.56	69.88	90	6290	404
15	SUB 4	FDR 3	2.16	377.10	174.46	2516	438946	1164
16	SUB 5	FDR 1	0.55	108.47	194.61	68	13234	122
17	SUB 5	FDR 2	0.40	66.59	164.08	125	20510	308
18	SUB 5	FDR 3	1.30	332.93	255.52	400	102211	307
19	SUB 5	FDR 4	1.00	201.44	201.44	70	14101	70
20	SUB 6	FDR 1	1.17	129.22	109.70	417	45747	354
21	SUB 6	FDR 2	2.77	317.25	114.18	2331	266173	839
22	SUB 6	FDR 3	0.52	137.07	262.93	220	57846	422
23	SUB 6	FDR 4	1.56	337.89	216.50	1222	264570	783
24	SUB 7	FDR 1	1.17	276.22	252.42	629	158778	536
25	SUB 7	FDR 2	2.65	467.18	176.28	3787	667603	1429
26	SUB 7	FDR 3	2.07	246.42	118.87	1364	162149	658
27	SUB 8	FDR 1	1.19	93.80	78.43	232	18198	194
28	SUB 8	FDR 2	1.87	183.81	98.07	1550	152011	827
29	SUB 8	FDR 3	0.19	14.41	73.59	47	3459	240
30	SUB 8	FDR 4	3.77	391.33	103.74	3791	393287	1005
31	SUB 9	FDR 1	1.23	1122.73	906.67	556	504109	449
32	SUB 9	FDR 2	2.26	445.78	196.83	1916	377131	846
33	SUB 9	FDR 3	2.00	266.66	132.85	281	37333	140
34	SUB 9	FDR 4	1.54	184.58	119.76	356	42638	231
35	SUB 9	FDR 5		0.36	60.00	1	60	164
36	SUB 10	FDR 1	1.23	82.52	66.61	669	44566	540
37	SUB 10	FDR 2	1.31	209.79	159.93	223	35665	170
38	SUB 10	FDR 3	1.22	269.47	220.13	1196	263278	977
39	SUB 11	FDR 0			186.00	1	186	
40	SUB 11	FDR 1	2.33	430.86	184.46	1899	350295	813
41	SUB 11	FDR 2	3.31	342.34	103.13	2941	303320	886
42	SUB 11	FDR 3	4.23	1275.80	301.29	2312	676591	546
43	SUB 11	FDR 4	0.72	41.28	56.97	208	11850	287
44	SUB 11	FDR 5	0.25	29.25	117.00	1	117	4
45	SUB 12	FDR 1	2.57	565.56	219.34	1199	262990	465
46	SUB 12	FDR 2	0.78	148.20	188.75	106	20008	135
47	SUB 12	FDR 3	1.61	279.66	173.16	302	52297	187
48	SUB 13	FDR 1	1.14	87.57	76.71	274	21019	240
49	SUB 13	FDR 2	0.82	31.74	38.57	358	13810	435
50	SUB 13	FDR 3	2.77	418.82	150.70	1434	216112	516
51	SUB 14	FDR 1	1.80	145.77	80.98	837	67785	465

		SAIFI	SAIDI	CAIDI	NBR-OUT	CONSUMER MINUTES	TOTAL SERVED
53							
54							
55							
56							
57							
	SUB 14 FDR 2	0.58	30.45	51.76	210	10871	357
	SUB 14 FDR 3	3.02	251.71	83.21	2202	183247	728
	SUB 14 FDR 4	0.78	41.61	52.97	531	28130	676
	SUB 14 FDR 5		0.24	29.00	1	29	120
	SUB 15 FDR 1	0.15	13.56	86.50	48	4152	306
	SUB 15 FDR 2	0.29	25.31	85.54	137	11719	463
	SUB 15 FDR 3	1.67	138.36	82.69	773	63926	462
	SUB 15 FDR 4	2.98	259.41	86.85	1577	136971	528
2	SUB 16 FDR 1	1.17	231.47	196.53	881	173143	748
	SUB 16 FDR 2	0.87	148.36	170.28	264	44955	303
	SUB 16 FDR 3	0.08	11.00	123.53	62	7659	696
	SUB 17 FDR 1	0.40	122.51	306.29	124	37980	310
	SUB 17 FDR 2	0.18	13.87	74.00	9	666	48
	SUB 17 FDR 3	0.20	31.49	154.83	48	7432	236
	SUB 17 FDR 4	2.85	313.77	109.91	1042	114535	365
	SUB 17 FDR 5	0.08	5.00	81.00	5	405	81
	SUB 18 FDR 1	1.05	193.34	183.12	473	86617	448
	SUB 18 FDR 2	1.00	38.00	38.00	1	38	1
	SUB 18 FDR 3	1.42	152.38	107.28	815	65985	453
	SUB 19 FDR 1	0.80	127.76	159.78	378	60399	472
	SUB 19 FDR 2	0.29	43.00	144.25	189	27265	634
	SUB 19 FDR 3	0.80	25.00	31.07	177	5500	220
	SUB 20 FDR 2	6.90	1417.75	205.38	5267	1081746	763
	SUB 20 FDR 3	0.61	166.95	273.47	163	44577	267
	SUB 20 FDR 4	0.04	5.50	122.00	1	122	23
	SUB 21 FDR 1	0.62	56.87	91.00	5	455	8
	SUB 21 FDR 2	0.14	82.14	575.00	1	575	7
	SUB 21 FDR 3	2.89	165.68	57.28	1504	86158	520
	SUB 22 FDR 1	2.90	225.66	77.63	218	16925	75
	SUB 22 FDR 2	0.42	26.10	62.16	210	13054	500
	SUB 22 FDR 3	0.31	44.14	140.18	97	13598	308
	SUB 22 FDR 4	0.04	1.62	33.45	11	368	227
	SUB 23 FDR 1	3.62	394.34	108.71	2307	250806	636
	SUB 23 FDR 2	2.73	380.03	138.74	1071	148592	591
	SUB 23 FDR 3	3.06	264.46	86.26	745	64266	243
	SUB 24 FDR 1	0.06	7.81	112.21	14	1571	201
	SUB 24 FDR 2	1.14	219.62	191.99	469	90047	410
	SUB 24 FDR 3	0.78	80.59	102.59	531	54480	676
	SUB 24 FDR 4	0.07	10.91	147.11	27	3972	364
	SUB 25 FDR 1	0.03	2.38	71.00	1	71	30
	SUB 25 FDR 2	1.61	56.14	34.82	1570	54682	974
	SUB 25 FDR 3	1.53	77.01	50.14	619	31039	403
	SUB 25 FDR 4	0.93	101.56	108.33	15	1625	16
	SUB 25 FDR 5	3.22	255.62	79.15	197	15593	61
	SUB 26 FDR 3	0.53	168.61	316.39	259	81947	486
	SUB 26 FDR 4	0.66	122.25	183.00	165	30196	247
	SUB 26 FDR 5	0.82	321.80	390.21	207	80774	251
	SUB 27 FDR 1		0.38	53.00	1	53	137
	SUB 27 FDR 2	1.40	262.76	187.65	913	171326	652
	SUB 27 FDR 3	1.19	151.79	127.33	602	76658	505
	ENTIRE SYSTEM	1.67	255.25	152.12	74535	11338923	44422

DATE 03/22/2005

SERVICE QUALITY REPORT

PAGE 1

WINTER 2003

113 FDRS

FORCED INTERRUPTIONS

JACKSON COUNTY RECC

			SAIFI	SAIDI	CAIDI	NBR-DUT	CONSUMER MINUTES	TOTAL SERVED
1	SUB 1 FDR 1		1.18	119.48	100.70	700	70495	590
2	SUB 1 FDR 2		0.04	13.80	283.46	13	3685	267
3	SUB 1 FDR 3		0.05	5.73	103.29	31	3202	558
4	SUB 2 FDR 1		1.83	1010.94	550.60	1915	1054414	1043
5	SUB 2 FDR 2		0.77	100.00	128.26	453	58105	581
6	SUB 2 FDR 3		0.03	4.03	113.63	33	3750	924
7	SUB 3 FDR 1		0.65	100.45	152.81	518	79160	788
8	SUB 3 FDR 3		0.08	6.54	79.72	99	7893	1206
9	SUB 3 FDR 4		0.03	2.85	72.61	21	1525	534
10	SUB 4 FDR 1		2.68	1065.59	396.96	1012	401728	377
11	SUB 4 FDR 2		1.03	217.15	210.38	417	87730	404
12	SUB 4 FDR 3		1.90	417.45	219.07	2218	485915	1164
13	SUB 5 FDR 1		1.42	180.50	126.56	174	22022	122
14	SUB 5 FDR 2		0.03	3.49	97.72	11	1075	308
15	SUB 5 FDR 3		0.21	82.48	383.66	66	25322	307
16	SUB 6 FDR 1		0.98	75.00	76.29	348	26552	354
17	SUB 6 FDR 2		2.45	208.92	85.17	2058	175284	839
18	SUB 6 FDR 3		0.60	58.77	97.26	255	24803	422
19	SUB 6 FDR 4		0.92	78.69	85.22	723	61619	783
20	SUB 7 FDR 1		0.34	14.22	40.99	186	7625	536
21	SUB 7 FDR 2		1.93	370.90	191.83	2763	530030	1429
22	SUB 7 FDR 3		0.05	4.87	94.38	34	3209	658
23	SUB 8 FDR 1		0.02	1.07	52.25	4	209	194
24	SUB 8 FDR 2		0.89	58.54	65.69	737	48419	827
25	SUB 8 FDR 3		0.23	26.60	114.03	56	6386	240
26	SUB 8 FDR 4		0.74	109.25	146.01	752	109804	1005
27	SUB 9 FDR 1		0.04	4.49	112.11	18	2018	449
28	SUB 9 FDR 2		0.67	77.92	115.86	569	65925	846
29	SUB 9 FDR 3			0.53	75.00	1	75	140
30	SUB 9 FDR 4		0.04	3.32	76.90	10	769	231
31	SUB 10 FDR 1		0.05	4.12	82.55	27	2229	540
32	SUB 10 FDR 2		0.42	58.17	135.46	73	9889	170
33	SUB 10 FDR 3		0.69	123.17	176.71	681	120345	977
34	SUB 11 FDR 0				85.00	1	85	
35	SUB 11 FDR 1		1.05	139.99	132.49	859	113813	813
36	SUB 11 FDR 2		0.99	185.24	185.45	885	164126	886
37	SUB 11 FDR 3		1.42	389.48	274.04	776	212658	546
38	SUB 11 FDR 4		0.16	16.75	100.16	48	4808	287
39	SUB 12 FDR 1		0.71	103.86	145.04	333	48279	465
40	SUB 12 FDR 2		0.66	80.31	120.47	90	10843	135
41	SUB 12 FDR 3		0.57	86.90	151.88	107	16252	187
42	SUB 13 FDR 1		1.02	52.50	51.22	245	12602	240
43	SUB 13 FDR 2		1.15	70.69	61.13	503	30752	435
44	SUB 13 FDR 3		1.29	143.98	111.55	666	74294	516
45	SUB 14 FDR 1		0.46	267.89	576.72	216	124573	465
46	SUB 14 FDR 2		0.02	0.88	35.00	9	315	357
47	SUB 14 FDR 3		0.13	6.35	47.68	97	4625	728
48	SUB 14 FDR 4		2.60	289.77	111.11	1763	195891	876
49	SUB 14 FDR 5			0.29	35.00	1	35	120
50	SUB 15 FDR 1		0.55	45.36	81.18	171	13882	306
51	SUB 15 FDR 2		4.07	611.76	150.10	1887	283248	463

		SAIFI	SAIDI	CAIDI	NBR-OUT	CONSUMER MINUTES	TOTAL SERVED
53							
54							
55	SUB 15 FDR 3	0.67	68.09	101.15	311	31459	482
56	SUB 15 FDR 4	0.35	53.95	152.33	187	28486	528
57	SUB 16 FDR 1	1.74	112.84	64.77	1303	84406	748
	SUB 16 FDR 2		0.29	44.50	2	89	303
	SUB 16 FDR 3	0.45	65.97	145.09	316	45849	696
	SUB 17 FDR 1	0.08	5.33	61.22	27	1653	310
	SUB 17 FDR 3	0.16	15.50	91.50	40	3660	236
	SUB 17 FDR 4	0.51	43.80	85.49	187	15987	365
4	SUB 17 FDR 5	0.01	2.58	209.00	1	209	81
	SUB 18 FDR 1	0.06	6.82	101.96	30	3059	448
	SUB 18 FDR 3	1.07	119.04	111.09	464	51548	433
	SUB 19 FDR 1	0.07	11.32	152.71	35	5345	472
1	SUB 19 FDR 2	3.25	330.71	163.17	2082	338472	634
2	SUB 19 FDR 3	0.10	5.46	52.30	23	1203	220
3	SUB 20 FDR 0			75.00	1	75	
4	SUB 20 FDR 2	0.97	45.16	46.25	745	34461	763
5	SUB 20 FDR 3	1.67	267.40	160.08	446	71396	267
6	SUB 21 FDR 2	1.28	57.85	45.00	9	405	7
7	SUB 21 FDR 3	1.65	127.55	77.90	858	66327	520
8	SUB 21 FDR 5	0.05	2.64	46.66	3	140	53
9	SUB 22 FDR 1	1.32	144.76	109.66	99	10857	75
10	SUB 22 FDR 2	0.69	345.30	788.01	346	272654	500
11	SUB 22 FDR 3	0.07	4.70	60.37	24	1449	308
12	SUB 22 FDR 4	0.27	25.20	90.82	63	5722	227
13	SUB 23 FDR 1	0.14	22.17	150.03	94	14103	636
14	SUB 23 FDR 2	0.08	6.63	78.60	33	2594	391
15	SUB 23 FDR 3	0.02	2.12	73.71	7	516	243
16	SUB 24 FDR 2	0.01	1.96	161.00	5	805	410
17	SUB 24 FDR 3	0.23	22.81	98.25	157	15426	676
18	SUB 24 FDR 4		0.46	85.50	2	171	364
19	SUB 25 FDR 1	0.63	76.76	121.21	19	2303	30
20	SUB 25 FDR 2	0.18	14.93	79.08	184	14551	974
21	SUB 25 FDR 3	0.32	15.66	48.57	130	6315	403
22	SUB 25 FDR 5	0.09	7.95	101.16	6	607	81
23	SUB 26 FDR 3	0.16	31.23	189.77	80	15182	486
24	SUB 26 FDR 4	0.07	5.18	67.42	19	1281	247
25	SUB 26 FDR 5	0.52	178.97	342.92	131	44923	251
26	SUB 27 FDR 1	0.66	71.66	138.00	91	12558	197
27	SUB 27 FDR 2	0.14	44.70	300.46	97	29145	652
28	SUB 27 FDR 3	0.29	22.40	76.98	147	11317	505
29							
30	ENTIRE SYSTEM	0.77	136.35	175.97	34422	6057266	44422
31							
32							
33							

DATE 03/22/2005

SERVICE QUALITY REPORT

PAGE 1

WINTER 2002

113 FDRS

FORCED INTERRUPTIONS

JACKSON COUNTY RECC

			SAIFI	SAIDI	CAIDI	NBR-OUT	CONSUMER MINUTES	TOTAL SERVED
1	SUB 1 FDR 1	0.53	176.01	364.82	317	115450	590	
2	SUB 1 FDR 2	1.23	175.21	141.33	331	46783	267	
3	SUB 1 FDR 3	1.02	304.32	298.33	373	169811	538	
4	SUB 1 FDR 4	0.27	161.05	584.89	19	11113	69	
5	SUB 2 FDR 1	1.46	972.07	665.70	1523	1013876	1043	
6	SUB 2 FDR 2	1.42	240.37	188.46	829	139656	581	
7	SUB 2 FDR 3	1.81	446.07	243.63	1678	412177	924	
8	SUB 3 FDR 1	2.07	228.16	110.10	1633	179797	788	
9	SUB 3 FDR 2	0.21	61.36	291.50	4	1166	19	
10	SUB 3 FDR 3	0.70	65.99	93.30	853	79589	1206	
11	SUB 3 FDR 4	1.77	1116.58	629.62	947	596258	534	
12	SUB 4 FDR 1	1.09	554.01	316.10	412	212635	377	
13	SUB 4 FDR 2	0.17	19.16	107.91	72	7741	404	
14	SUB 4 FDR 3	3.26	363.94	111.31	3799	423633	1164	
15	SUB 5 FDR 1	1.19	156.12	130.43	146	19047	122	
16	SUB 5 FDR 2	0.34	56.39	165.41	103	17369	308	
17	SUB 5 FDR 3	0.78	157.76	200.97	241	48435	307	
18	SUB 5 FDR 4	0.17	212.71	1240.83	12	14890	70	
19	SUB 5 FDR 5	0.25	125.47	490.50	22	10791	86	
20	SUB 6 FDR 1	1.72	304.30	304.30	2	609	354	
21	SUB 6 FDR 2	3.82	2301.39	393.02	4888	1930872	839	
22	SUB 6 FDR 3	0.26	46.49	178.38	110	19622	422	
23	SUB 6 FDR 4	1.13	113.73	99.81	908	90635	783	
24	SUB 7 FDR 1	0.03	3.90	173.77	18	3164	336	
25	SUB 7 FDR 2	0.93	179.99	213.73	1337	289792	1429	
26	SUB 7 FDR 3	0.08	9.91	116.50	56	6524	658	
27	SUB 8 FDR 1	2.79	218.31	78.06	343	42391	194	
28	SUB 8 FDR 2	1.21	97.42	80.40	1002	80570	827	
29	SUB 8 FDR 3	3.03	871.59	285.37	733	209183	240	
30	SUB 8 FDR 4	1.38	124.42	78.29	1397	123043	1003	
31	SUB 9 FDR 1	0.82	41.12	50.03	369	18464	449	
32	SUB 9 FDR 2	0.08	17.03	206.13	70	14431	846	
33	SUB 9 FDR 3	0.07	3.32	49.30	10	493	140	
34	SUB 9 FDR 4	0.64	75.32	116.77	149	17399	231	
35	SUB 10 FDR 1	1.93	704.69	363.43	1047	380535	540	
36	SUB 10 FDR 3	0.72	113.96	137.04	709	111343	977	
37	SUB 11 FDR 1	2.17	1060.07	488.29	1763	861838	813	
38	SUB 11 FDR 2	1.07	383.88	336.52	934	340124	886	
39	SUB 11 FDR 3	0.97	219.71	223.49	532	119963	346	
40	SUB 11 FDR 4	0.73	118.02	156.81	216	33872	287	
41	SUB 12 FDR 1	1.52	131.48	99.49	708	70439	463	
42	SUB 12 FDR 2	2.62	141.07	53.64	303	19043	133	
43	SUB 12 FDR 3	0.41	41.68	101.23	77	7793	187	
44	SUB 13 FDR 1	0.13	23.77	167.16	37	6183	240	
45	SUB 13 FDR 2	2.00	734.38	376.32	872	328139	433	
46	SUB 13 FDR 3	0.21	17.70	81.57	112	9136	516	
47	SUB 14 FDR 0			43.00	1	43		
48	SUB 14 FDR 1	0.03	3.99	116.00	16	1836	463	
49	SUB 14 FDR 2	1.57	436.19	276.59	563	155721	357	
50	SUB 14 FDR 3	0.39	16.11	41.16	283	11731	728	
51	SUB 14 FDR 4	1.93	192.18	99.33	1303	129918	676	

DATE 03/22/2005 SERVICE QUALITY REPORT PAGE
SUMMER 2004 113 FDRS FORCED INTERRUPTIONS JACKSON COUNTY RECC

			SAIFI	SAIDI	CAIDI	NBR-OUT	CONSUMER MINUTES	TOTAL SERVED
1								
2	SUB	1 FDR 1	1.16	108.08	93.09	685	63768	590
3	SUB	1 FDR 2	1.08	192.77	178.09	289	51470	267
4	SUB	1 FDR 3	1.60	112.07	69.87	895	62539	558
5	SUB	1 FDR 4	1.62	144.15	88.81	112	9947	69
6	SUB	2 FDR 1	6.66	2160.57	324.28	6949	2253476	1043
7	SUB	2 FDR 2	3.34	1089.25	325.20	1946	632856	581
8	SUB	2 FDR 3	3.85	1966.16	509.74	3564	1816739	924
9	SUB	3 FDR 1	3.73	1115.11	194.53	4517	878713	788
10	SUB	3 FDR 3	1.50	133.90	89.12	1812	181490	1206
11	SUB	3 FDR 4	3.00	1445.32	481.47	1603	771804	534
12	SUB	4 FDR 1	2.13	297.86	139.66	804	112294	377
13	SUB	4 FDR 2	0.14	14.56	98.05	60	5883	404
14	SUB	4 FDR 3	3.25	741.25	227.41	3794	862821	1164
15	SUB	5 FDR 1	0.50	40.90	80.48	62	4990	122
16	SUB	5 FDR 2	1.44	173.74	120.52	444	53514	308
17	SUB	5 FDR 3	0.81	217.15	265.60	251	66666	307
18	SUB	5 FDR 4	0.35	61.30	171.64	25	4291	70
19	SUB	5 FDR 5	0.70	28.38	40.01	61	2441	86
20	SUB	6 FDR 0			24.00	1	24	
21	SUB	6 FDR 1	0.83	187.87	224.68	296	66506	354
22	SUB	6 FDR 2	2.91	264.06	90.72	2442	221549	839
23	SUB	6 FDR 3	3.71	583.43	157.22	1566	246211	422
24	SUB	6 FDR 4	0.72	95.59	132.24	566	74852	783
25	SUB	7 FDR 1	1.35	267.87	198.31	724	143583	536
26	SUB	7 FDR 2	3.42	311.58	91.05	4890	445251	1429
27	SUB	7 FDR 3	2.54	263.19	103.57	1672	173181	658
28	SUB	8 FDR 1	1.43	123.67	86.30	278	23993	194
29	SUB	8 FDR 2	2.16	457.99	211.48	1791	378763	827
30	SUB	8 FDR 3	0.16	16.22	99.82	39	3893	240
31	SUB	8 FDR 4	4.12	1207.61	292.87	4144	1213655	1005
32	SUB	9 FDR 1	1.02	104.46	102.41	458	46906	449
33	SUB	9 FDR 2	3.24	345.15	106.49	2742	292005	846
34	SUB	9 FDR 3	0.36	25.47	69.92	51	3566	140
35	SUB	9 FDR 4	0.97	107.73	110.60	225	24886	231
36	SUB	9 FDR 5	0.03	15.21	416.00	6	2496	164
37	SUB	10 FDR 1	1.08	163.89	151.54	584	88504	540
38	SUB	10 FDR 2	1.64	594.29	362.11	279	101030	170
39	SUB	10 FDR 3	2.55	623.57	243.88	2498	609237	977
40	SUB	11 FDR 1	4.65	1044.95	224.27	3788	849547	813
41	SUB	11 FDR 2	2.38	282.99	118.43	2117	250736	886
42	SUB	11 FDR 3	1.82	570.14	312.54	996	311297	546
43	SUB	11 FDR 4	1.70	280.41	164.57	489	80479	287
44	SUB	12 FDR 1	4.23	475.74	112.23	1971	221222	465
45	SUB	12 FDR 2	1.36	348.93	256.01	184	47106	135
46	SUB	12 FDR 3	1.28	261.75	203.10	241	48949	187
47	SUB	13 FDR 1	0.87	112.74	128.85	210	27059	240
48	SUB	13 FDR 2	1.26	379.17	299.34	551	164941	435
49	SUB	13 FDR 3	2.57	597.65	232.39	1327	308392	516
50	SUB	14 FDR 1	0.39	21.79	55.68	182	10134	465
51	SUB	14 FDR 2	1.42	98.62	69.44	507	35208	357
52	SUB	14 FDR 3	0.87	160.37	183.86	635	116756	728

		SAIFI	SAIDI	CAIDI	NBR-OUT	CONSUMER MINUTES	TOTAL SERVED
53							
54							
55	SUB 14 FDR 4	0.26	24.20	91.93	178	16364	676
56	SUB 14 FDR 5	0.06	24.81	372.25	8	2978	120
57	SUB 15 FDR 1	2.52	159.69	63.21	773	48867	306
	SUB 15 FDR 2	2.88	253.94	87.94	1337	117576	463
	SUB 15 FDR 3	3.60	1921.78	533.57	1664	887864	462
	SUB 15 FDR 4	3.43	404.28	117.60	1815	213461	528
	SUB 16 FDR 1	2.39	378.69	157.89	1794	283261	748
8	SUB 16 FDR 2	0.66	78.04	118.24	260	23649	303
	SUB 16 FDR 3	2.33	365.55	242.23	1625	393625	696
	SUB 17 FDR 1	2.50	642.50	257.00	775	199178	310
	SUB 17 FDR 2	0.16	23.56	141.37	8	1131	48
	SUB 17 FDR 3	0.02	2.62	103.33	6	620	236
	SUB 17 FDR 4	1.40	425.23	303.14	512	155211	365
	SUB 17 FDR 5	0.14	138.64	935.83	12	11230	81
1	SUB 18 FDR 1	1.93	401.61	207.52	867	179923	448
2	SUB 18 FDR 3	5.16	595.22	115.26	2236	257754	433
3	SUB 19 FDR 1	0.69	64.89	93.95	326	30630	472
4	SUB 19 FDR 2	2.00	271.41	135.49	1270	172079	634
5	SUB 19 FDR 3	0.60	72.10	120.16	132	15862	220
6	SUB 20 FDR 2	4.36	599.59	137.38	3330	457493	763
7	SUB 20 FDR 3	1.04	397.50	381.77	278	106133	267
8	SUB 21 FDR 1	0.25	7.25	29.00	2	58	8
9	SUB 21 FDR 3	4.86	941.96	193.68	2529	489820	520
10	SUB 21 FDR 4	0.75	43.62	58.16	6	349	8
11	SUB 21 FDR 5	0.41	29.35	70.72	22	1556	53
12	SUB 22 FDR 1	2.05	111.49	54.29	154	8362	75
13	SUB 22 FDR 2	0.35	125.52	354.58	177	62762	500
14	SUB 22 FDR 3	2.65	208.43	78.48	818	64197	368
15	SUB 22 FDR 4	1.24	122.37	98.51	282	27780	227
16	SUB 23 FDR 1	2.88	827.31	286.74	1835	526172	636
17	SUB 23 FDR 2	0.78	224.20	287.49	305	87685	391
18	SUB 23 FDR 3	0.09	6.89	69.83	24	1676	243
19	SUB 24 FDR 1	0.27	36.19	129.91	56	7275	201
20	SUB 24 FDR 2	2.53	871.05	543.72	1039	357131	410
21	SUB 24 FDR 3	1.42	169.94	118.92	966	114886	676
22	SUB 24 FDR 4	0.03	2.50	76.00	12	912	364
23	SUB 25 FDR 1	0.03	5.26	138.00	1	158	30
24	SUB 25 FDR 2	1.79	529.91	295.78	1745	516140	974
25	SUB 25 FDR 3	0.55	323.50	679.43	225	130372	403
26	SUB 25 FDR 5	2.39	199.52	83.36	146	12171	61
27	SUB 26 FDR 2	0.02	3.95	182.00	1	182	46
28	SUB 26 FDR 3	1.36	167.46	122.75	663	81386	486
29	SUB 26 FDR 4	0.72	49.49	68.68	178	12226	247
30	SUB 26 FDR 5	1.25	178.38	142.14	315	44775	251
31	SUB 27 FDR 1	1.72	242.91	141.01	236	33280	137
32	SUB 27 FDR 2	3.19	475.88	148.33	2083	308975	852
33	SUB 27 FDR 3	0.15	15.53	103.21	76	7844	505
34	SUB 28 FDR 3	0.01	1.58	80.20	10	802	505
35							
36							
37	ENTIRE SYSTEM	2.23	470.96	210.53	99375	20921420	44422
38							
39							
40							
41							
42							

Jackson Energy Cooperative response to Kentucky Public Service
Commission Order 2005-00090

Attachment C

STORM REPORT
JACKSON ENERGY COOP
STORM DATES: 5/26/04 – 5/27/04
STORM DATES: 5/31/04 – 6/01/04

The first of two storms that hit the area begin 5/26/04 around 4:30 pm and lasted appx. 1-1/2 hr with heavy rain and high winds. The heaviest areas hit were Clay, Jackson, Laurel, and parts of Rockcastle counties. At peak outage appx. 19195 members were with out power. A major part of the outages were transmission lines to 3 substations served by East Ky Power. The following is appx times and how many restored. All Jackson Energy crews were dispatched to restore power.

4:53 pm East Ky. Power restored power to 3 substations. 5396 restored.
5:00 pm – 9:00pm Jackson Energy Crews restored 5135 members
9:00 pm – 1:00am Jackson Energy Crews restored 3642 members
1:00 am - 7:32 pm Jackson Energy Crews restored 5022 members. At this time all were restored.

The second storm hit 5/31/04 at appx. 1:15am with heavy rain, high winds, and flooding. The heaviest areas hit were Lee, Owsley, Estill, Jackson, Parts of Clay and Laurel. At peak outage appx. 10113 members were without power. This storm had less people but caused more damage to lines due to trees, broke poles, flooding.
All Jackson Energy crews were dispatched as well as seven contract crews and 2 right of way crews to cut trees and restore power. There were a lot of small tap and group outages that were flooded and we had to wait until water went down to restore.

1:15 am – 6:00 am Crews restored 700 members restored
6:00 am – 10:00 am Crews restored 4250 members restored
10:00 am – 7:00pm Crews restored 3933 members restored
7:00 pm - 11:15 pm 6/01/04 Crews restored 1230 members restored At this time all were restored.

STORM REPORT
JACKSON ENERGY COOP
STORM DATES: 7/5/04 – 7/06/04

The first of two storms hit our area in a one, two punch. On Monday July 5, 04 at appx. 3:30pm – 11:45pm several strong thunder storms swept thru our service area. A lot of rain, lighting, and heavy winds caused several outages. Although a holiday all Jackson Energy crews were dispatched and restored the power. The worst areas hit were Laurel, Clay, with some outages in Jackson and Owsley counties. The total out was 3498 customers. All were not out at once but as the storms went thru.
3:30pm – 7:30pm 1782 customers were restored.
7:31 pm – 12:00am 1716 customers were restored.

The second wave of thunder storms rolled thru our service area July 6, 04 at appx. 7:15am and continued off and on all day until 11:30pm. Again heavy rain, wind and lightning were the culprit. The worst areas hit were Laurel, Clay, Jackson, Lee counties. The total out was 4494 customers. All were not out at once but as the storms went thru. We lost power to 1 substation which affected 2625. This was off 2+hrs due to K.U. feed.
7:15am – 12:00 pm 136 customers were restored.
12.01 pm – 5:00pm 2863 customers were restored mostly due to substation.
5:01 pm – 11:45 pm 1495 customers were restored.

If you have any questions please contact Harold Hays or Gregory Johnson at 606-364-1000 . Harold Hays ext.291 Gregory Johnson ext.272

STORM REPORT
JACKSON ENERGY COOP
STORM DATES: 9/17/04

On Friday Sept. 17, 04 the remnants of hurricane Ivan went thru southeastern Ky. With heavy rain, flooding, and winds. The worst hit around 7:45am and continued until around 6:30pm. The outages began around 8:00am and continued thru out the day. At peak appx.5164 members were without power. The heaviest areas hit were Estill, Lee, Owsley, Jackson, Laurel, and Rockcastle counties. All Jackson Energy crews were dispatched to restore power.

9:00am – 1:00pm Jackson Energy crews restored 2133 members.

1:00pm – 5:00pm Jackson Energy crews restored 664 members.

5:00pm – 9:00 pm Jackson Energy crews restored 1490 members.

9:00pm – 12:00am Jackson Energy crews restored 825 members.

12:00am – 2:30am Jackson Energy crews restored 46 members.

Due to high water 6 members were off until Sept. 18, 04 at 12:40pm. At this time all members were restored.

The storm caused trees to fall and flooding with some land slides, a few broke poles and line damage mostly from trees out of the right of way.